JDBC - DELETE RECORDS EXAMPLE

http://www.tutorialspoint.com/jdbc/jdbc-delete-records.htm

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This tutorial provides an example on how to delete records from a table using JDBC application. Before executing following example, make sure you have the following in place:

- To execute the following example you can replace *username* and *password* with your actual user name and password.
- Your MySQL or whatever database you are using is up and running.

Required Steps:

There are following steps required to create a new Database using JDBC application:

- **Import the packages:** Requires that you include the packages containing the JDBC classes needed for database programming. Most often, using *import java.sql.** will suffice.
- **Register the JDBC driver:** Requires that you initialize a driver so you can open a communications channel with the database.
- **Open a connection:** Requires using the *DriverManager.getConnection()* method to create a Connection object, which represents a physical connection with a database server.
- Execute a query: Requires using an object of type Statement for building and submitting an SQL statement to delete records from a table. This Query makes use of WHERE clause to delete conditional records.
- Clean up the environment: Requires explicitly closing all database resources versus relying on the JVM's garbage collection.

Sample Code:

Copy and past following example in JDBCExample.java, compile and run as follows:

```
//STEP 1. Import required packages
import java.sql.*;
public class JDBCExample {
   // JDBC driver name and database URL
   static final String JDBC_DRIVER = "com.mysql.jdbc.Driver";
  static final String DB_URL = "jdbc:mysql://localhost/STUDENTS";
   // Database credentials
   static final String USER = "username";
  static final String PASS = "password";
  public static void main(String[] args) {
  Connection conn = null;
   Statement stmt = null;
   trv{
      //STEP 2: Register JDBC driver
      Class.forName ("com.mysql.jdbc.Driver");
      //STEP 3: Open a connection
     System.out.println("Connecting to a selected database...");
      conn = DriverManager.getConnection(DB_URL, USER, PASS);
      System.out.println("Connected database successfully...");
      //STEP 4: Execute a query
      System.out.println("Creating statement...");
```

```
stmt = conn.createStatement();
      String sql = "DELETE FROM Registration " +
                  "WHERE id = 101";
      stmt.executeUpdate(sql);
      // Now you can extract all the records
      // to see the remaining records
      sql = "SELECT id, first, last, age FROM Registration";
      ResultSet rs = stmt.executeQuery(sql);
      while(rs.next()){
         //Retrieve by column name
         int id = rs.getInt("id");
         int age = rs.getInt("age");
         String first = rs.getString("first");
         String last = rs.getString("last");
         //Display values
         System.out.print("ID: " + id);
         System.out.print(", Age: " + age);
         System.out.print(", First: " + first);
        System.out.println(", Last: " + last);
      rs.close();
   }catch(SQLException se) {
      //Handle errors for JDBC
      se.printStackTrace();
   }catch(Exception e) {
      //Handle errors for Class.forName
      e.printStackTrace();
   }finally{
      //finally block used to close resources
      try{
         if(stmt!=null)
           conn.close();
      }catch(SQLException se) {
      }// do nothing
      try{
         if(conn!=null)
            conn.close();
      }catch(SQLException se) {
         se.printStackTrace();
      }//end finally try
   }//end try
   System.out.println("Goodbye!");
}//end main
}//end JDBCExample
```

Now let us compile above example as follows:

```
C:\>javac JDBCExample.java
C:\>
```

When you run JDBCExample, it produces following result:

```
C:\>java JDBCExample
Connecting to a selected database...
Connected database successfully...
Creating statement...
ID: 100, Age: 30, First: Zara, Last: Ali
ID: 102, Age: 30, First: Zaid, Last: Khan
ID: 103, Age: 28, First: Sumit, Last: Mittal
Goodbye!
C:\>
```